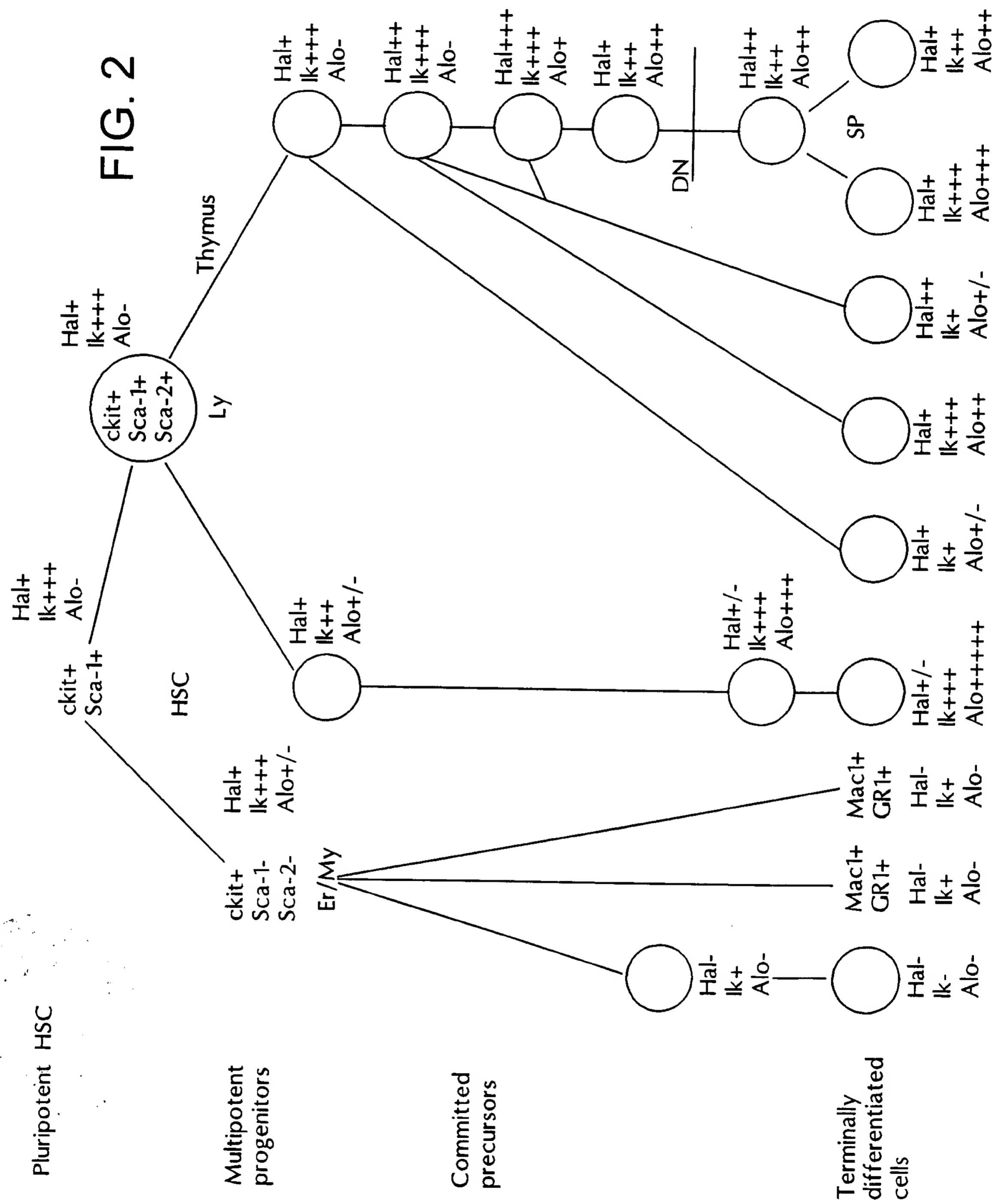


7



ATG GAAACAGACGCTATTGATGGCTATATAACATGTGACAATGAGCTTCACCCGAAGGGAAACACGCCA
TAC CTTTGTCCTGCATAACTACCGATATATTGTACACTGTTACTCGAAAGTGGCTTCCCCTGTGCGGT 70
M E T D A I D G Y I T C D N E L S P E G E H A
ATA TGGCCATTGACCTCACCTCAAGCACGCCAATGGACAGCACGCCCTGCCAAGTCACATGACAAGCAC
TAT ACCGGTAACCTGGAGTGGAGTTCGTGCAGGTTACCTGTGCGAGCAGGTTCACTGTACTGTTCGT 140
N M A I D L T S S T P N G Q H A S P S H M T S T
AAA TTCTGTAAAGCTGGAAATGCAGAGTGTGAAGAGTGTGACAGGCAGGCCCTGAGCCGTGAGGATGAG
TTT AAGACATTCGACCTTACGTCTCACTACTTCTCACACTGTCCGTGGGACTCGGCACCTACTC 210
N S V K L E M Q S D E E C D R Q P L S R E D E
ATCAGGGGCCACGATGAGGGAGCAGCCTAGAAGAACCCCTAATTGAGAGCAGCGAGGTGGCCGACAACA
TAG TCCCCGGTGCTACTCCCCCTCGTCGGATCTTCTGGGATTAACTCTCGTCGCTCCACCGGCTGTTGT 280
I R G H D E G S S L E E P L I E S S E V A D N
GGAAAGTCCAGGACCTCAAGGCAGGGAGGAATCCGGCTCCGAATGGTAAACTGAAATGTGACGTCTG
CCTTCAGGTCTGGAGTTCCGCTCCCTCCTAGGCCGAAGGCTTACCATTTGACTTACACTGCAGAC 350
R K V Q D L O G E G G I R L P N G K L K C D V C
TGGCATGGTTGCATTGGGCCAATGTGCTTATGGTACATAAAAGGAGTCACACTGGTGAGCGGCCCTC
ACCGTACCAAACGTAACCCGGGTTACACGAATACCATGTATTTCTCAGTGTGACCACTGCCGGGAAG 420
G M V C I G P N V L M V H K R S H T G E R P F
CACTGTAACCAGTGCAGGAGCTTCTTACCCAGAAGGGCACCTCTGAGACAGATAAGTTACACTCTG
GTGACATTGGTCACGCCCTCGAAGAAAATGGGTCTTCCGTTGGAAAGACTCTGTGTATTCATGTGAGAC 490
H C N Q C G A S F T Q K G N L L R H I K L H S
GAGAGAAGCCCTCAAATGTCTTCTGTAGCTATGCTGTAGAAGAAGGGACGCTCACAGGACACCT
CTCTCTCGGGAAAGTTACAGGAAAGACATCGATAACGAAACATCTCTCCCTGCGAGAGTGTCTGTGGA 560
G E K P F K C P F C S Y A C R R R D A L T G H L
CAGGACCCATTCTGTGGTAAACCTCACAAAGTGTAACTACTGTGGCCGAAGCTACAAGCAGCGCACGTCA
GTCCTGGTAAGACACCCATTGGAGTGTACATTGATGACACCGGCTTCGATGTTCGTCGCGTGCAGT 630
R T H S V G K P H K C N Y C G R S Y K Q R T S

FIG. 3A

CTGGAGGAACACAAGAACGCTGTACAACTATCTCCAGAATGTCA
GACCTCCTTGTGTTCTTGCACAGTGTTAGAGGTCTTACAGTC
L E E H K E R C H N Y L Q N V S M E A A G Q V
TGAGTCACCATGTAACCGCCTATGGAAGATTGTAAGGAACAAGAGC
ACTCAGTGGTACATGGCGGATACTTCTAACATTCTTGTCTCG
M S H H V P P M E D C K E Q E P I M D N N I S L
GGTGCCTTTGAGAGACCTGCTGTATAGAGAACGCTCACGG
CCACGGAAAACCTCTGGACGACAGTATCTCTCGAGTGCC
V P F E R P A V I E K L T A N M G K R K S S T
CCTCAGAAGTTGTGGGGAAAAGCTTATGCGATT
GGAGTCTTCAAACACCCCCCTTTCGAATACGCTAAGTC
P O K F V G E K L M R F S Y P D I H F D M N L
CATATGAGAAGGAGGCTGAGCTGATGCAGTCT
GTATACTCTTCCGACTCGACTACGT
T Y E K E A E L M Q S H M M D Q A I N N A I T Y
CCTTGGAGCTGAGGCCCTCACCTCTGATGCAG
GGAACCTCGACTCCGGGAAGTGGGAGACTACGT
L G A E A L H P L M O H A P S T I A E V A P V
ATAAGCTCAGCTTATTCTCAGGTCTAT
TATTGAGTCGAATAAGAGTCCAGATAGTAG
I S S A Y S Q V Y H P N R I E R P I S R E T S
ATAGTCACGAAAACAACATGGATGGCCC
TATCAGTGCTTTGTTACCTACCGGG
D S H E N N M D G P I S L I R P K S R P Q E R E
GGCCTCGCCAGCAATAGCTGCCTCGATTCT
CCGGAGCGGGTCGTTATCGACGGAGCT
A S P S N S C L D S T D S E S S H D D R Q S Y
700
770
840
910
980
1050
1120
1190
1260

FIG. 3B

CAAGGAAACCCCTGCCTTAAATCCCAGAGGAAACAAAGGCCAGCTTACATGAAGGAGGATGTCAAGGCTT
GTTCCCTTGGGACGGAATTAGGGTTCTCCTTGTTCGGGTCGAATGTACTTCCTCCTACAGTTCCGAA 1330
Q G N P A L N P K R K Q S P A Y M K E D V K A
TGGATGCTACCAAGGCCCCAAGGGCTCTCTGAAGGACATCTATAAGGTTCAATGGAGAAGGAGAAC
ACCTACGATGGTTCCGGGGGTTCCCGAGAGACTTCCTGTAGATATTCAAAGTTACCTCTCCTTGT 1400
L D A T K A P K G S L K D I Y K V F N G E G E Q
GATAAGGGCCTTCAAGTGTGAGCACTGCCGAGTCCTTTCTAGACCATGTCATGTACACCATTACATG
CTATTCCCGGAAGTTCACACTCGTGACGGCTCAGGAAAAAGATCTGGTACAGTACATGTGGTAAGTGTAC 1470
I R A F K C E H C R V L F L D H V M Y T I H M
GGTTGCCATGGCTACCGGGACCCACTGGAATGCAACATCTGTGGCTACAGAACGCCAGGAACCGCTACGAAT
CCAACGGTACCGATGGCCCTGGGTGACCTTACGTTGTAGACACCGATGTCTCGGTCTGGCGATGCTTA 1540
G C H G Y R D P L E C N I C G Y R S Q D R Y E
TTTCATCACACATTGTTGGGGGGCAGCACACATTCCACTAGGCCTTGCATTCCAAGG
AAAGTAGTGTGTAACAACCCCCCGTCGTGTGAAGGTGATCCGCAAACGTAAGGTTCC 1598
F S S H I V G G Q H T F H A F A F Q G

FIG. 3C

ATGGAAACAGACGCTATTGATGGCTATATAACATGTACAATGAGCTTCACCCGAAGGGGAACACGCCA
TACCTTGTCGCGATAACTACCGATATATTGTACACTGTTACTCGAAAGTGGGCTTCCCCTTGTGCGGT 70
M E T D A I D G Y I T C D N E L S P E G E H A
ATATGCCATTGACCTCACCTCAAGCACGCCAATGGACAGCACGCCTGCCAACATGACAAGCAC
TATAACCGTAACTGGAGTGGAGTTCGTGCAGGTTACCTGTCGTGCAGGTTCACTGTACTGTTCGT 140
N M A I D L T S S T P N G Q H A S P S H M T S T
AAATTCTGTAAAGCTGGAAATGCAGAGTGATGAAGAGTGACAGGCAGCCCTGAGCCGTGAGGATGAG
TTAAGACATTCGACCTTACGTCTCACTACTTCTCACACTGTCCGTGGGACTCGGCACTCCTACTC 210
N S V K L E M Q S D E E C D R Q P L S R E D E
ATCAGGGGCCACGATGAGGGAGCAGCCTAGAAGAACCCCTAATTGAGAGCAGCGAGGTGGCCGACAACA
TAGTCCCCGGTGCTACTCCCCCGTCCGATCTTCTGGGATTAACCTCGTCGCTCCACCGGCTGTTGT 280
I R G H D E G S S L E E P L I E S S E V A D N
GGAAAGTCCAGGACCTCAAGGCAGGGAGGAATCCGGCTTCCGAATGGTGAGCGGCCCTTCACTGTAA
CCTTCAGGTCTGGAGTTCCGCTCCCTCCTAGGCCGAAGGCTTACCACTGCCGGGAAGGTGACATT 350
R K V Q D L Q G E G G I R L P N G E R P F H C N
CCAGTGCAGGAGCTTCTTACCCAGAAGGGCACCTCTGAGACACATAAGTTACACTCTGGAGAGAAG
GGTCACGCCCTCGAAGAAAATGGGTCTTCCCCTGGAAAGACTCTGTGTATTCATGTGAGACCTCTTC 420
Q C G A S F T Q K G N L L R H I K L H S G E K
CCCTCAAATGTCTTCTGTAGCTATGCTTGAGAAGAAGGGACGCTCTCACAGGACACCTCAGGACCC
GGGAAGTTACAGGAAAGACATCGATAACATCTTCTTCCCTCGAGAGGTGTCTGTGGAGTCCTGGGG 490
P F K C P F C S Y A C R R R D A L T G H L R T
ATTCTGTGGGTAAACCTCACAAAGTGTAACTACTGTGGCCGAAGCTACAAGCAGCGACGTCACTGGAGGA
TAAGACACCCATTGGAGTGTTCACATTGATGACACCCGGCTCGATGTTCGTCGCGTGCAGTGACCTCCT 560
H S V G K P H K C N Y C G R S Y K Q R T S L E E
ACACAAGGAACGCTGTACAAACTATCTCAGAATGTCAGCATGGAGGCTGCCGGCAGGTATGAGTCAC
TGTGTTCTTGCACAGTGTGATAGAGGTCTTACAGTCGTACCTCCGACGGCCCGTCCAGTACTCAGTG 630
H K E R C H N Y L Q N V S M E A A G Q V M S H

FIG. 4A

CATGTACCGCCTATGGAAGATTGTAAGGAACAAGAGCCTATCATGGACAACAATATTCCTGGTGCCTT
700
GTACATGGCGGATAACCTTCTAACATTCTGTTCTGGATAGTACCTGTTATAAAGAGACCACGGAA
H V P P M E D C K E Q E P I M D N N I S L V P
TTGAGAGACCTGCTGTCATAGAGAAGCTCACGGCAAATATGGAAAGCGCAAAAGCTCCACTCCTCAGAA
770
AACTCTCTGGACGACAGTATCTCTCGAGTGCCGTTATACCCCTTCGGCTTTCGAGGTGAGGAGTCTT
F E R P A V I E K L T A N M G K R K S S T P Q K
GTTTGTGGGGAAAAGCTTATGCGATTCTAGCTACCCAGATATTCTTTGATATGAACCTAACATATGAG
840
CAAACACCCCCCTTTCGAATACGCTAAGTCGATGGGTCTATAAGTAAACTATACTGAATTGTATACTC
F V G E K L M R F S Y P O I H F D M N L T Y E
AAGGAGGCTGAGCTGATGCAGTCTCATATGATGGACCAAGCCATCAACAATGCAATCACCTACCTGGAG
910
TTCCCTCCGACTCGACTACGTCAAGTATACTACCTGGTTGGTAGTTACGTTAGTGGATGGAACCTC
K E A E L M Q S H M M D Q A I N N A I T Y L G
CTGAGGCCCTTACCCCTGATGCAGCATGCACCAAGCACAATCGCTGAGGTGGCCCCAGTTATAAGCTC
980
GACTCCGGAAAGTGGGAGACTACGTCACTGGTTGTGTTAGCGACTCCACCGGGGTCATATTGAG
A E A L H P L M Q H A P S T I A E V A P V I S S
AGCTTATTCTCAGGTCTATCATCCAAACAGGATAGAAAGACCCATTAGCAGGGAAACATCTGATAGTCAC
1050
TCGAATAAGAGTCCAGATAGTAGGTTGTCTATCTTCTGGTAATCGTCCCTTGAGACTATCAGTG
A Y S Q V Y H P N R I E R P I S R E T S D S H
GAAAACAACATGGATGGCCCCATCTCTCATCAGACCAAGAGTCGACCCAGGAAAGAGAGGGCTCGC
1120
CTTTTGTGTACCTACCGGGTAGAGAGAGTAGTCTGGTTCTCAGCTGGGTCTCTCCGGAGCG
E N N M D G P I S L I R P K S R P Q E R E A S
CCAGCAATAGCTGCCTCGATTCTACTGACTCAGAAAGTAGCCATGATGACGCCAGTCCTACCAAGGAAA
1180
GGTCGTTATCGACGGAGCTAAGATGACTGAGTCTTCATCGGTACTACTGGCGGTCAAGGATGGTCCCTT
P S N S C L D S T D S E S S H D D R Q S Y Q G N
CCCTGCCTAAATCCCAGAGGAAACAAAGCCAGCTTACATGAAGGAGGATGTCAAGGCTTGGATGCT
1260
GGGACGGAATTAGGGTCTCCTTGTTCGGTCGAATGTACTTCCTACAGTCCGAAACCTACGA
P A L N P K R K Q S P A Y M K E D V K A L D A

FIG. 4B

ACCAAGGCCCAAGGGCTCTGAAGGACATCTATAAGGTTCAATGGAGAAGGAGAACAGATAAGGG
1330
TGGTCCGGGGTCCGAGAGACTTCCTGTAGATATTCCAAAAGTTACCTCTCCTTGTCTATTCCC
T K A P K G S L K D I Y K V F N G E G E Q I R
CCTTCAAGTGTGAGCACTGCCGAGTCCTTTCTAGACCATGTCATGTACACCATTACATGGGTTGCCA
1400
GGAAGTTCACACTCGTGACGGCTCAGGAAAAAGATCTGGTACAGTACATGTGGTAAGTGTACCCAACGGT
A F K C E H C R V L F L D H V M Y T I H M G C H
TGGCTACCAGGGACCCACTGGAATGCAACATCTGTGGCTACAGAACGCCAGGACCGCTACGAATTTCATCA
1470
ACCGATGGCCCTGGGTGACCTTACGTTGTAGACACCGATGTCTCGGTCTGGCATTAAAGTAGT
G Y R D P L E C N I C G Y R S Q D R Y E F S S
CACATTGTTGGGGGCAGCACACATTCCACTAGGCCTTGCATTCCAAGG
1520
GTGTAACAACCCCCCGTCGTGTAAAGGTGATCCGCAAACGTAAGGTTCC
H I V G G Q H T F H A F A F Q G

FIG. 4C

1/1 31/11
GCC CGG GCA GGT CGC ATT GCT ATA GCA CTG ACT GAC CTC TCT CTC TCT CTT TTT TTT CCT
A R A G R I A I A L T D L S L S L F F P
61/21 91/31
CTT TCC TGA AAC CCG ACA TTG TCA CCT CCT CTT TGA GGG TTA GAA GAA GCT GAG ATC TCC
L S * N P T L S P P L * G L E E A E I S
121/41 151/51
CGA CAG AGC TGG AAA TGG TGA TGA ATC TTT TTT AAT CAA AGG ACA ATT TCT TTT CAT TGC
R Q S W K W * * I F F N Q R T I S F H C
181/61 211/71
ACT TTG ACT ATG GAA ACA GAG GCT ATT GAT GGC TAT ATA ACG TGT GAC AAT GAG CTT TCA
T L T M E T E A I D G Y I T C D N E L S
241/81 271/91
CCC GAA AGG GAG CAC TCC AAT ATG GCA ATT GAC CTC ACC TCA AGC ACA CCC AAT GGA CAG
P E R E H S N M A I D L T S S T P N G Q
301/101 331/111
CAT GCC TCA CCA AGT CAC ATG ACA AGC ACA GAT TCA GTA AAG CTA GAA ATG CAG AGT GAT
H A S P S H M T S T D S V K L E M Q S D
361/121 391/131
GAA GAG TGT GAC AGG AAA CCC CTG AGC CGT GAA GAT GAG ATC AGG GGC CAT GAT GAG GGT
E E C D R K P L S R E D E I R G H D E G
421/141 451/151
AGC AGC CTA GAA GAA CCC CTA ATT GAG AGC AGC GAG GTG GCT GAC AAC AGG GAA GTC CAG
S S L E E P L I E S S E V A D N R E V Q
481/161 511/171
GAG CTT CAA GGC GAG GGA GGA ATC CGG CTT CCG AAT GGT AAA CTG AAA TGT GAC GTC TGT
E L Q G E G G I R L P N G K L K C D V C
541/181 571/191
GGC ATG GTT TGC ATT GGG CCC AAT GTG CTT ATG GTA CAT AAA AGG AGT CAC ACT GGT GAA
G M V C I G P N V L M V H K R S H T G E
601/201 631/211
CGC CCC TTC CAC TGT AAC CAG TGT GGA GCT TCT TTT ACT CAG AAG GGC AAC CTT CTG AGA
R P F H C N Q C G A S F T Q K G N L L R
661/221 691/231
CAC ATA AAG TTA CAC TCT GGA GAG AAG CCG TTC AAA TGT CCT TTC TGT AGT CAC GCC TGT
H I K L H S G E K P F K C P F C S H A C
721/241 751/251
AGA AGA AGG GAC GCC CTC ACA GGA TAC CTC AGG ACC CAT TCT GTG GGT AAA CCT CAC AAG
R R R D A L T G Y L R T H S V G K P H K
781/261 811/271
TGC AAC TAC TGT GGA CGA AGC TAC AAG CAG CGC AGT TCA CTG GAG GAG CAC AAG GAA CGC
C N Y C G R S Y K Q R S S L E E H K E R
841/281 871/291
TGC CAC AAC TAT CTC CAG AAT GTC AGC ATG GAG GCT GCT GGG CAG GTC ATG AGT CAC CAT
C H N Y L Q N V S M E A A G Q V M S H H
901/301 931/311
GTA CCT CCT ATG GAA GAT TGT AAG GAA CAA GAG CCT ATT ATG GAC AAC AAT ATT TCT CTG
V P P M E D C K E Q E P I M D N N I S L
961/321 991/331
GTG CCT TTT GAG AGA CCT GCT GTC ATA GAG AAG CTC ACG GGG AAT ATG GGA AAA CGT AAA
V P F E R P A V I E K L T G N M G K R K
1021/341 1051/351
AGC TCC ACT CCA CAA AAG TTT GTG GGG GAA AAG CTC ATG CGA TTC AGC TAC CCA GAT ATT
S S T P Q K F V G E K L M R F S Y P D I
1081/361 1111/371
CAC TTT GAT ATG AAC TTA ACA TAT GAG AAG GAG GCT GAG CTG ATG CAG TCT CAT ATG ATG
H F D M N L T Y E K E A E L M Q S H M M
1141/381 1171/391
GAC CAA GCC ATC AAC AAT GCA ATC ACC TAC CTT GGA GCT GAG GCC CTT CAC CCT CTG ATG
D Q A I N N A I T Y L G A E A L H P L M
1201/401 1231/411
CAG CAC CCG CCA AGC ACA ATC GCT GAA GTG GCC CCA GTT ATA AGC TCA GCT TAT TCT CAG
Q H P P S T I A E V A P V I S S A Y S Q

FIG. 5A

1261/421 1291/431
GTC TAT CAT CCA AAT AGG ATA GAA AGA CCC ATT AGC AGG GAA ACT GCT GAT AGT CAT GAA
V Y H P N R I E R P I S R E T A D S H E
1321/441 1351/451
AAC AAC ATG GAT GGC CCC ATC TCT CTC ATC AGA CCA AAG AGT CGA CCC CAG GAA AGA GAG
N N M D G P I S L I R P K S R P Q E R E
1381/461 1411/471
GCC TCT CCC AGC AAT AGC TGC CTG GAT TCC ACT GAC TCA GAA AGC AGC CAT GAT GAC CAC
A S P S N S C L D S T D S E S S H D D H
1441/481 1471/491
CAG TCC TAC CAA GGA CAC CCT GCC TTA AAT CCC AAG AGG AAA CAA AGC CCA GCT TAC ATG
Q S Y Q G H P A L N P K R K Q S P A Y M
1501/501 1531/511
AAG GAG GAT GTC AAA GCT TTG GAT ACT ACC AAG GCT CCT AAG GGC TCT CTG AAG GAC ATC
K E D V K A L D T T K A P K G S L K D I
1561/521 1591/531
TAC AAG GTC TTC AAT GGG GAA GGA GAA CAG ATT AGG GCC TTC AAG TGT GAG CAC TGC CGA
Y K V F N G E G E Q I R A F K C E H C R
1621/541 1651/551
GTC CTT TTC CTA GAC CAT GTC ATG TAC ACC ATT CAC ATG GGT TGC CAT GGC TAC CGG GAC
V L F L D H V M Y T I H M G C H G Y R D
1681/561 1711/571
CCA CTG GAA TGT AAC ATC TGT GGC TAC AGA AGC CAG GAC CGT TAT GAG TTT TCA TCA CAC
P L E C N I C G Y R S Q D R Y E F S S H
1741/581 1771/591
ATT GTT CGA GGG GAG CAC ACA TTC CAC TAG GCC TTT TCA TTC CAA AGG GGA CCC TAT GAA
I V R G E H T F H * A F S F Q R G P Y E
1801/601 1831/611
GTA AAG ACT GCA CAT GAA GAA ATA CTG CAC TTA CAA TCC CAC CTT TCC TCA AAT GTT GTA
V K T A H E E I L H L Q S H L S S N V V
1861/621 1891/631
CCT TTT ATT TTT TTA ATA TAA TAC TGG TGA TAA TCT TAT TTT GTG GAG CAG TGT CAT TTG
P F I F L I * Y W * * S Y F V E Q C H L
1921/641
CTC TGC T
L C

FIG. 5B

1 ATGGAAACAGACGCTATTGATGGCTATATAAACATGTGACAATGAGCTTC 50
190 ATGGAAACAGAGGCTATTGATGGCTATATAACGTGTGACAATGAGCTTC 239
51 ACCCGAAGGGAAACACGCCAATATGCCATTGACCTCACCTCAAGCACGC 100
240 ACCCGAAAGGGAGCACTCCAATATGGAATTGACCTCACCTCAAGCACAC 289
101 CCAATGGACAGCACGCCTGCCAAGTCACATGACAAGCACAAATTCTGTA 150
290 CCAATGGACAGCATGCCTCACCAAGTCACATGACAAGCACAGATTCAAGTA 339
151 AAGCTGGAAATGCAGAGTGTGAAAGAGTGTGACAGGCAGCCCTGAGCCG 200
340 AAGCTAGAAATGCAGAGTGTGAAAGAGTGTGACAGGAAACCCCTGAGCCG 389
201 TGAGGATGAGATCAGGGGCCACGATGAGGGGAGCAGCCTAGAAGAACCCC 250
390 TGAAGATGAGATCAGGGGCCATGATGAGGGTAGCAGCCTAGAAGAACCCC 439
251 TAATTGAGAGCAGCGAGGTGGCCGACAACAGGAAAGTCCAGGACCTCAA 300
440 TAATTGAGAGCAGCGAGGTGGCTGACAACAGGAAAGTCCAGGAGCTCAA 489
301 GGCGAGGGAGGAATCCGGCTTCCGAATGGTAAACTGAAATGTGACGTCTG 350
490 GGCGAGGGAGGAATCCGGCTTCCGAATGGTAAACTGAAATGTGACGTCTG 539
351 TGGCATGGTTGCATTGGGCCAATGTGCTTATGGTACATAAAAGGAGTC 400
540 TGGCATGGTTGCATTGGGCCAATGTGCTTATGGTACATAAAAGGAGTC 589
401 ACACCTGGTGAACGCCCTTCCACTGTAACCAGTGGAGCTTCTTTACC 450
590 ACACCTGGTGAACGCCCTTCCACTGTAACCAGTGTGGAGCTTCTTTACT 639
451 CAGAAGGGCAACCTTCTGAGACACATAAAGTTACACTCTGGAGAGAACCC 500
640 CAGAAGGGCAACCTTCTGAGACACATAAAGTTACACTCTGGAGAGAACCC 689
501 CTTCAAATGTCCTTCTGTAGCTATGCTTAGAAGAAGGGACGCTCTCA 550
690 GTTCAAATGTCCTTCTGTAGTCACGCCGTAGAAGAAGGGACGCCCTCA 739
551 CAGGACACCTCAGGACCCATTCTGTGGTAAACCTCACAAAGTGTAACTAC 600
740 CAGGATACCTCAGGACCCATTCTGTGGTAAACCTCACAAAGTGTAACTAC 789
601 TGTGGCCGAAGCTACAAGCAGCGACGTCACTGGAGGAACACAAGGAACG 650
790 TGTGGACGAAGCTACAAGCAGCGCAGTTCACTGGAGGGAGCACAGGAACG 839
651 CTGTCACAACATCTCCAGAATGTCAGCATGGAGGCTGCCGGCAGGTCA 700
840 CTGCCACAACATCTCCAGAATGTCAGCATGGAGGCTGCTGGCAGGTCA 889
701 TGAGTCACCATGTACCGCCTATGGAAGATTGTAAGGAACAAGAGCCTATC 750
890 TGAGTCACCATGTACCTCCTATGGAAGATTGTAAGGAACAAGAGCCTATT 939
751 ATGGACAAACAATATTCTCTGGTGCCTTGAGAGACCTGCTGTCAAGTA 800

FIG. 6A

940 ATGGACAACAATATTCTCTGGTGCCTTTGAGAGACCTGCTGTAGA 989
801 GAAGCTCACGGCAAATATGGAAAGCGAAAAGCTCCACTCCTCAGAAGT 850
990 GAAGCTCACGGGAATATGGAAAACGTAAAAGCTCCACTCCACAAAAGT 1039
851 TTGTGGGGAAAAGCTTATGCGATTCTACCCAGATATTCACTTGAT 900
1040 TTGTGGGGAAAAGCTCATGCGATTCTACCCAGATATTCACTTGAT 1089
901 ATGAACCTAACATATGAGAAGGAGGCTGAGCTGATGCAGTCATATGAT 950
1090 ATGAACCTAACATATGAGAAGGAGGCTGAGCTGATGCAGTCATATGAT 1139
951 GGACCAAGCCATCAACAATGCAATCACCTACCTGGAGCTGAGGCCCTTC 1000
1140 GGACCAAGCCATCAACAATGCAATCACCTACCTGGAGCTGAGGCCCTTC 1189
1001 ACCCTCTGATGCAGCATGCACCAAGCACAATCGCTGAGGTGGCCCCAGTT 1050
1190 ACCCTCTGATGCAGCACCCGCCAACGACAATCGCTGAAGTGGCCCCAGTT 1239
1051 ATAAGCTCAGCTTATTCTCAGGTCTATCATCCAAACAGGATAGAAAGACC 1100
1240 ATAAGCTCAGCTTATTCTCAGGTCTATCATCCAAATAGGATAGAAAGACC 1289
1101 CATTAGCAGGGAAACATCTGATAGTCACGAAAACAACATGGATGGCCCCA 1150
1290 CATTAGCAGGGAAACTGCTGATAGTCATGAAAACAACATGGATGGCCCCA 1339
1151 TCTCTCTCATCAGACCAAAGAGTCGACCCCAGGAAAGAGAGAGGCCCTCGCCC 1200
1340 TCTCTCTCATCAGACCAAAGAGTCGACCCCAGGAAAGAGAGAGGCCCTCGCCC 1389
1201 AGCAATAGCTGCCTCGATTCTACTGACTCAGAAAGTAGCCATGATGACCG 1250
1390 AGCAATAGCTGCCTGGATTCCACTGACTCAGAAAGCAGCCATGATGACCA 1439
1251 CCAGTCCTACCAAGGAAACCCCTGCCTTAAATCCAAGAGGAAACAAAGCC 1300
1440 CCAGTCCTACCAAGGACACCCCTGCCTTAAATCCAAGAGGAAACAAAGCC 1489
1301 CAGCTTACATGAAGGAGGATGTCAAGGCTTGGATGCTACCAAGGCC 1350
1490 CAGCTTACATGAAGGAGGATGTCAAAGCTTGGATACTACCAAGGCTCCT 1539
1351 AAGGGCTCTCTGAAGGACATCTATAAGGTTCAATGGAGAAGGAGAAC 1400
1540 AAGGGCTCTCTGAAGGACATCTACAAGGTCTCAATGGGAAGGAGAAC 1589
1401 GATAAGGGCTTCAAGTGTGAGCACTGCCAGTCCTTTCTAGACCATG 1450
1590 GATTAGGGCCTTCAAGTGTGAGCACTGCCAGTCCTTTCTAGACCATG 1639
1451 TCATGTACACCATTCACATGGTTGCCATGGCTACCGGGACCCACTGGAA 1500
1640 TCATGTACACCATTCACATGGTTGCCATGGCTACCGGGACCCACTGGAA 1689
1501 TGCAACATCTGTGGTACAGAACAGCCAGGACCGCTACGAATTTCATCACA 1550
1690 TGTAACATCTGTGGTACAGAACAGCCAGGACCGTTATGAGTTTCATCACA 1739
1551 CATTGTTGGGGGCAGCACACATTCCACTAGGCCTTGCATTCCAAGG 1598
1740 CATTGTTGAGGGAGCACACATTCCACTAGGCCTTTCATCACAAG 1787

FIG. 6B

1 METEAIDGYITCDNELSPEREHSNMAIDLTSSTPNGQHASPSHMTSTDV 50
|||||||
1 METEAIDGYITCDNELSPEREHSNMAIDLTSSTPNGQHASPSHMTSTDV 50

51 KLEMQSDEECDRKPLSREDEIRGHDEGSSLEEPLIESSEVADNREVQELQ 100
|||||||
51 KLEMQSDEECDRKPLSREDEIRGHDEGSSLEEPLIESSEVADNREVQELQ 100

101 GEGGIRLPNGKLKCDVCGMVCIGPNVLMVHKRSHTGERPFHCNQCGASFT 150
|||||||
101 GEGGIRLPNGKLKCDVCGMVCIGPNVLMVHKRSHTGERPFHCNQCGASFT 150

151 QKGNNLLRHIKLHSGEKPKCPFCSHACRRRDALTGYLRTHSGVKPHKCNY 200
|||||||
151 QKGNNLLRHIKLHSGEKPKCPFCSHACRRRDALTGYLRTHSGVKPHKCNY 200

201 CGRSYKQRSSLEEHKERCHNYLQNVSMEEAGQVMHHVPPMEDCKEQEPI 250
|||||||
201 CGRSYKQRSSLEEHKERCHNYLQNVSMEEAGQVMHHVPPMEDCKEQEPI 250

251 MDNNNISLVPFERPAVIEKLTGNMGKRKSSTPQKFVGEKLMRFSYPDIHFD 300
|||||||
251 MDNNNISLVPFERPAVIEKLTGNMGKRKSSTPQKFVGEKLMRFSYPDIHFD 300

301 MNLTYEKEAELMQSHMMDQAINNAITYLGAEALHPLMQHPPSTIAEVAPV 350
|||||||
301 MNLTYEKEAELMQSHMMDQAINNAITYLGAEALHPLMQHPPSTIAEVAPV 350

351 ISSAYSQVYHPNRIERPISRETADSHENNMDGPISLIRPKSRPQEREASP 400
|||||||
351 ISSAYSQVYHPNRIERPISRETADSHENNMDGPISLIRPKSRPQEREASP 400

401 SNSCLDSTDSESSHDDHQSYQGHPALNPKRKQSPAYMKEDVKALDTTKAP 450
|||||||
401 SNSCLDSTDSESSHDDHQSYQGHPALNPKRKQSPAYMKEDVKALDTTKAP 450

451 KGSLKDIYKVNGEQEIRAFKCEHCRVLFLDHVMYTIHMGCHGYRDPLE 500
|||||||
451 KGSLKDIYKVNGEQEIRAFKCEHCRVLFLDHVMYTIHMGCHGYRDPLE 500

501 CNICGYRSQDRYEFSSHIVRGEHTFH 526
|||||||
501 CNICGYRSQDRYEFSSHIVRGEHTFH 526

FIG. 7